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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (currently amended) A <u>liquid</u> composition comprising a non-polymeric acid having protein and calcium-precipitating properties, an organic polymer which has carboxyl and/or hydroxyl groups, a film forming component, and a solvent, said composition having a pH value in the range of from 1 to 3.
- 2. (previously presented) Composition according to claim 1, wherein the composition contains an acid which has a solubility of 0.5 to 20 wt.-% in water or in a mixture of 50 wt.-% water and 50 wt.-% ethanol.
 - 3. (canceled)
- 4. (previously presented) Composition according to claim 1, wherein the acid is a carboxylic acid, sulphonic acid and/or phosphonic acid.
- 5. (withdrawn) Composition according to claim 4, wherein the phosphonic acid has a formula

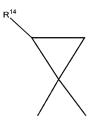
in which

- n is 1, 2, 3 or 4,
- m is 0, 1 or 2,
- p is 0 or 1,
- R is a straight-chained or branched aliphatic hydrocarbon radical with 1 to 12 carbon atoms or an aromatic hydrocarbon radical with 6 to 12 carbon atoms or an aliphatic/aromatic hydrocarbon radical with 7 to 16 carbon atoms, which can be substituted by OH, NH₂ and/or COOR⁶,
- R¹ is a C₁ to C₁₂ alkylene, C₄ to C₁₂ cycloalkylene, C₆ to C₁₂ arylene or C₇ to C₁₆ alkylenearylene radical, which can be substituted by OH, NH₂ and/or COOR⁶, or is absent,

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 R^2 is H, a C_1 to C_6 alkyl or a phenyl radical,

- R^3 , R^4 each mean, independently of each other, a C_1 to C_{12} alkylene, C_6 to C_{12} arylene or C_7 to C_{16} alkylenearylene radical, which can be substituted by methyl, phenyl or fluorine, or are absent,
- R⁵ is -CH=CR¹³-, a prop-1-ene-1, 3-diyl, C₁ to C₆ alkenylene, C₃ to C₉ cycloalkylene, C₁ to C₆ alkylene or phenylene radical or a group of formula



- R⁶ is H, a C₁ to C₆ alkyl or a phenyl radical,
- Z¹, Z² each mean, independently of each other, CO-O, CO-NR⁷, O-CO-NH, O, NH, S or are absent,
- Y¹, Y² each mean, independently of each other, O, CO-O, CO-NR⁸, O-CO-NH or are absent,
- R⁷, R⁸ each mean, independently of each other, H, or a C₁ to C₆ alkyl radical,
- X is H, CN, $N(R^9)_2$, OR^{10} , $COOR^{11}$ or $CONR_2^{12}$,
- R^9 , R^{10} , R^{11} , R^{12} each mean, independently of each other, H, a C_1 to C_{10} alkyl or a phenyl radical,
- R¹³ is H or a methyl radical,
- R^{14} is H or a C_1 to C_{10} alkyl, vinyl or phenyl radical.
- 6. (withdrawn) Composition according to claim 5, wherein
- n is 1 or 2 and/or
- m is 1 and/or
- p is 0 and/or
- R is an aliphatic straight-chained or branched mono- to pentavalent alkane radical with 1 to 7 carbon atoms, an aromatic hydrocarbon radical with 6 carbon atoms or an aliphatic/aromatic hydrocarbon radical with 8 carbon atoms and/or
- R¹ is a methylene or ethylene radical or is absent and/or
- R² is H, a methyl or ethyl radical and/or

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- R³, R⁴ each mean, independently of each other, a methylene, ethylene, trimethylene, p-phenylene, ethylidene, 1-methylene ethane-1,2-diyl radical or are absent and/or
- R⁵ is a methylene, ethylene, trimethylene, ethane-1, 2-diyl, methylethylene, prop-1-ene-1, 3-diyl, or a cyclopropylidene radical monosubstituted in 2 position or is absent and/or
- R⁶ is H and/or
- Z¹, Z² each mean, independently of each other, CO-O, O-CO-NH or O or are absent and/or
- Y¹, Y² each mean, independently of each other, O, CO-O or CO-NR⁸ or are absent and/or
- R⁷, R⁸ each mean, independently of each other, H or a methyl or ethyl radical and/or
- X is H, CN, COOR¹¹ or CONR₂¹² and/or
- R⁹, R¹⁰, R¹¹, R¹² each mean, independently of each other, H or a methyl, ethyl or phenyl radical and/or
- R¹³ is H or a methyl radical,
- R¹⁴ is H or a vinyl or phenyl radical.
- 7. (withdrawn) Composition according to claim 5, wherein
- n is 1,
- m is 1,
- p is 0,
- R is a C_1 to C_3 alkylene or phenylene radical,
- R^2 is H,
- R⁴ is a branched or straight-chained C₁ to C₆ alkylene radical which can be substituted by 1 to 2 fluorine atoms and/or 1 phenyl radical or is absent,
- R⁵ is a 1-methylene ethane-1, 2-diyl radical,
- Z^2 is absent,
- Y² is O or is absent,
- X is COOR¹¹ and
- R^{11} is H or a C_1 to C_5 alkyl or phenyl radical.
- 8. (withdrawn) Composition according to claim 5, wherein
- n is 2,

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m is 2,

p is 1,

- R is a quadrivalent aliphatic, aromatic, or aliphatic-aromatic hydrocarbon radical with 2 to 12 carbon atoms,
- R¹ is absent,
- R^2 is H,
- R^3 is a C_1 to C_3 alkylene or phenylene radical or is absent,
- R⁴ is a branched or straight-chained C₁ to C₆ alkylene radical which can be substituted by 1 to 2 fluorine atoms and/or 1 phenyl radical or is absent,
- R⁵ is a 1-methylene ethane-1, 2-diyl radical,
- Z^1, Z^2 are absent,
- Y¹ is absent,
- Y^2 is O or is absent,
- X is COOR¹¹ and
- R^{11} is H or a C_1 to C_5 alkyl or phenyl radical.
- 9. (withdrawn) Composition according to claim 4, wherein the carboxylic acid is maleic acid and/or trichloroacetic acid.
- 10. (withdrawn) Composition according to claim 4, wherein the sulphonic acid is sulphosalicylic acid (2-hydroxy-5-sulphobenzoic acid).
- 11. (previously presented) Composition according to claim 1, containing from 1 to 4 different acids.
- 12. (previously presented) Composition according to claim 1, wherein the polymer is a polysaccharide, a polyethylene glycol, a polyacrylic acid, a polyacrylamide, a polyvinylpyrrolidine or a mixture thereof.
- 13. (withdrawn) Composition according to claim 12, wherein the polymer is a mixture of polyethylene glycol dimethacrylate and polyacrylic acid.
- 14. (previously presented) Composition according to claim 1, further containing fluoride ions.

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- 15. (previously presented) Composition according to claim 1, further containing a potassium ion-releasing compound.
 - 16. (canceled)
- 17. (previously presented) Composition according to claim 1, wherein the film-forming component is hydroxypropyl cellulose.
 - 18. (previously presented) Composition according to claim 1, containing

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0.5 to 40 wt.-% phosphonic acid and/or
1.0 to 40 wt.-% carboxyl and/or hydroxyl-group-containing polymer and/or
0.5 to 30 wt.-% of a film-forming component and/or
0.1 to 1.0 wt.-% fluoride ions and/or
0.1 to 10 wt.-% potassium ions and
0 to 97.8 wt.-% solvent.
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- 19. (previously presented) Composition according to claim 18, further containing from 0.1 to 1.0 wt.-% flavourings.
- 20. (previously presented) Composition according to claim 18, wherein the solvent is a mixture of ethanol and water.
 - 21. (withdrawn) Composition according to claim 18, containing

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1 to 5 wt.-% of at least one phosphonic acid,
3 to 7 wt.-% polyacrylic acid,
15 to 25 wt.-% polyethylene glycol dimethacrylate,
3 to 7 wt.-% hydroxypropyl cellulose,
0.1 to 1.0 wt.-% potassium fluoride,
0.05 to 0.2 wt.-% flavouring and
53.8 to 76.9 wt.-% ethanol/water mixture (approx. 50 wt.-%).
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22. (withdrawn) Kit containing an acid and in spatially separated form thereof an organic, carboxyl and/or hydroxyl-group-containing polymer.

- 23. (withdrawn) Kit according to claim 22, wherein the acid is applied to a brush.
- 24. (withdrawn) Kit according to claim 22, containing a solution of the polymer, the composition of which is measured such that, when the solution is combined with the acid of the kit, a composition containing

0.5 to 40 wt%	phosphonic acid and/or
1.0 to 40 wt%	carboxyl and/or hydroxyl-group-containing polymer
	and/or
0.5 to 30 wt%	of a film-forming component and/or
0.1 to 1.0 wt%	fluoride ions and/or
0.1 to 10 wt%	potassium ions and
0 to 97.8 wt%	solvent

is obtained.

- 25. (withdrawn) Kit according to claim 22, wherein the acid and polymer are housed in different chambers of a double-chambered vessel.
- 26. (withdrawn) A method for the precipitation of protein comprising combining the composition of claim 1 with a protein solution.
- 27. (previously presented) A method for the desensitization of teeth comprising applying the composition of claim 1 to a tooth.
 - 28. (canceled).
- 29. (new) Composition according to claim 1, wherein the pH value is in the range of from 2 to 3.
 - 30. (new) Composition according to claim 1, wherein the pH value is 3 or below.